

**Self - Assessment Checksheet - Environmental Geology – New Syllabus September 1, 2011**

**\*\*\*Note: If self-assessment differs from APEGM assessment, APEGM assessment shall prevail \*\*\***

**Applicant Name:** \_\_\_\_\_ **Reviewed by:** \_\_\_\_\_

<b>APEGM requirements</b>		
<b>Section IA: COMPULSORY FOUNDATION SCIENCES. 3 EUs required – 1 per area</b>		
Mathematics (1 EU) (See Note 1)		
Physics (1 EU)		
Chemistry (1 EU)		
<b>Section 1B. ADDITIONAL FOUNDATION SCIENCE – 6 EUs required – no more than 2 in any subject, Geo subject areas containing the foundational topics listed in the descriptors may be substituted. See Note 2</b>		
Biology	1.	
Chemistry	2.	
Computer Programming	3.	
Mathematics	4.	
Physics	5.	
Statistics	6.	
<b>Section II. ENVIRONMENTAL GEOLOGY</b>		
<b>2A. COMPULSORY FOUNDATION GEOSCIENCE – 4 EUs – 1 EU per area</b>		
Field Techniques	1.	
Minerology/Petrology	2.	
Sedimentation/Stratigraphy	3.	
Structural Geology	4.	
<b>2B. ADDITIONAL FOUNDATION GEOSCIENCE 5 EU required, minimum of 1 and at most 2 from each subgroup</b>		
Geochemistry/Geophysics	1.	2.
Hydrogeology or Hydrology	1.	
Engineering Geology	2.	
Geomorphology or Soil Science	1.	
Glacial Geology/ Remote Sensing	2.	
<b>2C. ADDITIONAL GEOSCIENCE. 9 EU's required – 2<sup>nd</sup> level or higher – extra courses not used in 2A and 2B can be used in 2C.</b>		
	<b>Course Examples</b>	<b>Course Number</b>
Thesis/Technical Writing		
Earth Systems	Climatology	
	Meteorology	
	Oceanography	
	Paleoenvironmental Studies	
	Paleoclimatology	
	Paleoecology	
	Paleobiology	
Environmental Assessment		
Field Techniques		
Geochemistry	Environmental Geochemistry	
	Isotope Geochemistry	
	Aqueous Geochemistry	

	Biogeochemistry	
	Atmospheric Geochemistry	
	Low Temperature Geochemistry	
Geomorphology/Surficial	Geomorphology	
	Natural Hazards	
	Quaternary Geology	
	Pedology	
	Glaciology	
Geophysics	Environmental Geophysics	
	Exploration Geophysics	
	Applied Geophysics	
Geotechnical	Engineering Geology	
	Soil Mechanics	
	Rock Mechanics	
	Resource Geotechnics	
Hydrology/Hydrogeology	Contaminant Transport	
	Hydrogeology	
	Hydrology	
	Fluid Mechanics	
Mineralogy/Petrology	Crystallography	
	X-Ray Crystallography	
	Analytical Methods	
Paleontology	Micropaleontology	
	Paleobiology	
	Palynology	
Quantitative Analysis	Geostatistics	
	Computer Applications in Geoscience	
	GIS	
Regional Geology	Geology of Canada	
	Geology of North America	
Remote Sensing	Remote Sensing	
	Airphoto Interpretation	
Resource Geology	Economic Geology	
	Mineral Deposits Geology	
	Ore Petrology	
	Coal Geology	
	Petroleum Geology	
	Industrial Minerals	
Sedimentology	Chemical Sedimentology	
	Clastic Sedimentology	
	Carbonate Sedimentology	
	Glacial Geology	

	Limnogeology	
Stratigraphy	Historical Geology	
	Sequence Stratigraphy	
	Stratigraphic Paleontology	
	Geochronology	
Structure	Global Tectonics	
	Tectonics	
	Structural Geology	

Comments:

**Note 1: 1 EU is approximately equal to one 3 Credit hour course. A 3 credit hour course will usually have three hours of lectures and three hours of labs per week for one semester (around 4 months).**

**Note 2: Normally only 1 Geoscience substitute would be allowed for Section 1B. However, up a maximum of two geoscience substitutes could be allowed if necessary, provided these geoscience courses had sufficient fundamentals content.**

**Note 3: Courses cannot be counted twice. For example, you cannot use the same Geochemistry course to fulfill both a chemistry requirement AND a Geochemistry requirement.**